

SANTA FE NATIONAL FOREST

FOREST PLAN

MONITORING AND EVALUATION REPORT

FY2001

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FOREST SUPERVISOR'S CERTIFICATION and INTRODUCTION

Forest Supervisor's Certification of Forest Plan Sufficiency

I certify that the Santa Fe National Forest Plan (Forest Plan) as amended is sufficient to guide management of the Forest over the next year. The *Needs for Change: Preliminary Recommendations for Updating the Forest Plan* section in the monitoring report identifies changes that are necessary in order to maintain the viability of the Plan.

This Monitoring and Evaluation Report meets regulatory requirements for completing an annual report (36 CFR 219).

/s/ Gilbert Zepeda
GILBERT ZEPEDA
Acting Forest Supervisor

07/18/2002
Date

Forest Plan Amendment & Revision

Amendments made to the Forest Plan from 1988-1992 were:

- Amendment #1- change in timber sale schedule (8/88)
- Amendment #2- added management direction for recommended Wild and Scenic Rivers (1/89)
- Amendment #3- change in timber sale schedule (5/89)
- Amendment #4- added Pajarito Peak electronic site (2/90)
- Amendment #5- adjusted management area boundaries between area "C" and "Q" (10/92)
- Amendment #6- Region-wide amendment included new standards and guidelines for managing Mexican spotted owl and Northern goshawk habitats, and livestock grazing (5/96)
- Amendment #7- added Management Area J, standards and guidelines, and management area direction, for the Gallinas Municipal Watershed which provides the majority of the municipal water supply for the City of Las Vegas

Forest Plan amendments currently in process for fiscal year 2001 and 2002:

- East Fork of the Jemez Wild and Scenic River: new standards and guidelines + Management Plan
- Pecos Wild and Scenic River: new standards and guidelines + Management Plan
- Jemez National Recreation Area: new standards and guidelines + Management Plan
- Oil and gas leasing: to address the proposed changes by the State to double well density and provide appropriate leasing standards and guidelines for new leases
- Wildlife amendment: to have standards and guidelines for threatened, endangered, and sensitive species that are consistent with current agency regulations, policies, and directives

The Forest Plan was based on data from the late 1970s, was published as a draft in 1982, and then published as a final in 1983. The decision was appealed, and after additional revisions the final Forest Plan was not approved in 1987. The Forest Plan will be 15 years old in 2002.

Revision of the Forest Plan was originally scheduled for 1999 (Five Year Review Report), however, Congress put a hold on funding Forest Plan revisions until the updated forest planning regulations (36 CFR 219) became final. The interim planning rule was extended effective May 20, 2002. This interim rule is to be followed until the adoption of the final planning rule.

The Santa Fe National Forest is on the current schedule to start the revision process in 2008. We are currently building the Forest's inventories and assessments, as a basis for future planning and analysis, while we await final agency planning regulations and Congressional authorization for Forest Plan revisions.

Inventory & Assessment

During fiscal year 2001, we continued to build the Forest's Geographic Information System (GIS) database for environmental planning analysis work. GIS data such as streams, water bodies, existing vegetation, range allotments, terrestrial ecosystem units, special management areas, and goshawk and spotted owl habitats were developed and submitted to the Regional Office to check for errors and ensure standardization between other Forests in the Region. Using GIS, we provided data, created maps, and ran analyses for numerous inventories and assessment projects including Inventoried Roadless Areas, Santa Fe Municipal Watershed, oil and gas leasing, sensitive species inventories, wildland urban interface areas, and the Rio Guadalupe Watershed. We also participated in the national Inventory and Monitoring Program Plan by using tools to assess the status of our GIS data towards national standardization. During spring of 2001, the Santa Fe National Forest hired acting Natural Resource Information System (NRIS) Coordinator to help begin to lead NRIS efforts on the forest. NRIS is comprised of six modules: Air (air resources); Fauna (terrestrial wildlife occurrences); FSVeg (field sampled vegetation); Human Dimensions (social, economic, demographic information); Terra (terrestrial resources); and Water (water resources). The Water module was the first module to have data entered. This process included: organizing, cleaning and entering water rights data into the access template provided by the NRIS Water team. Identification of data stewards for each of the six modules was completed via the Supervisor's Office and the Southwest Regional Office. Two fish biologists and the NRIS Coordinator completed NRIS Water training in fall of 2001.

We have completed the inventory and entered the data into the Infrastructure (INFRA) database for: buildings, water systems, recreation sites, administrative sites, wastewater systems, dams, and range structures. Inventory continued on deferred maintenance inspections and costs for those items listed in the previous sentence plus roads, trails, bridges, major culverts, and archaeological sites. A Geographic Positioning System was used to map the locations of trails and roads.

Two Hydrologic Condition Assessments were completed in fiscal year 2001 (Santa Fe Municipal Watershed and the Gallinas Municipal Watershed). A third Hydrologic Condition Assessment (Rio Guadalupe Watershed) was started and will be finished in fiscal year 2002. We began the Roads Analysis Process on the Coyote Ranger District, and are planning to finish the Forestwide Roads Analysis Process in fiscal year 2003.

In summary, the inventory/assessment process provides the foundation for planning, analysis and monitoring activities, helps us prioritize our land management efforts, and identifies the changes needed to the Forest Plan.

Summary of Monitoring Activities

The following table summarizes monitoring activities performed. The four columns consist of:

1. The resource being monitored.
2. The type of monitoring action accomplished.
3. The location of monitoring documentation, i.e. Ranger District, Supervisor's Office, or another location.
4. The resource area or district where the monitoring occurred.

List of acronyms used:

BLM – Bureau of Land Management

GIS – Geographic Information System

INFRA – Infrastructure database

NEPA – National Environmental Policy Act

RD – Ranger District

RO – Regional Office

SO – Supervisor's Office

NRIS – Natural Resource Information System

Forestwide

RESOURCE	MONITORING ACCOMPLISHED	RECORD LOCATION	AREA
Botany	Arizona Willow monitoring: San Pedro Parks wilderness, Sierra Mosca Allotment	RD files	Forestwide
Fish	Coordinated effort with New Mexico Department of Game and Fish to determine whirling disease infected streams	New Mexico Department of Game and Fish	Forestwide
Minerals	Permit compliance inspection and monitoring of active mines and wells.	Cuba RD – Minerals file	Forestwide
Minerals	Surface inspection of recently closed mines.	Cuba RD – Minerals file	Forestwide
Pest Management	Surveyed for gypsy moth, multiple species, using traps to determine presence/absence and track spread –RO collecting data	RO files – Insect and Disease files	Forestwide
Pest Management	Aerial survey, map and report of insect/disease activity (annually by RO)	SO Forestry files	Forestwide
Roads	Monitored road conditions on all Maintenance Level 3 roads and 2% of Maintenance Level 2 roads	SO Engineering files	Forestwide
Roads	Monitored road signs	SO Engineering files	Forestwide
Roads	Annual maintenance and road closure inspections	SO Engineering files	Forestwide

Monitoring was conducted across the Santa Fe National Forest on five districts. These districts are combined into three resource areas: Pecos-Las Vegas, Jemez-Cuba, and Coyote-Española. The following monitoring accomplished tables are separated by resource areas.

Pecos-Las Vegas Ranger District

RESOURCE	MONITORING ACCOMPLISHED	RECORD LOCATION	DISTRICT(S)
Fire	Implementation monitoring on prescribed burns (Madrid, Capulin, Southwest Pasture Barbero Allotment)	RD files	Pecos-Las Vegas
Fire, Climate	Remote Automated Weather Station on Barillas Peak (National Forest Danger Rating System)	SO-Fire Weather Information Management System weather archives	Pecos-Las Vegas
Fire, Prevention	Inspected residences within wildland urban interface for defensible space (Gallinas, Evergreen Valley, Macho, Dalton, Holy Ghost, Grass Mountain, Pecos, Winsor, Cowles)	RD-Fire files	Pecos-Las Vegas
Fire, Vegetation	Monitored effectiveness of Rx burns using fuels plots and photo points related to the Valle Grande Grassbank completed by contractor (Valle Grande Allotment, Capulin Allotment, and Barbero Allotment)	RD-Fire and Range files	Pecos-Las Vegas
Fisheries	Inventoried stream habitat on Elk Creek, Sheep, Creek, Cow Creek, and Gallinas River.	RD-Fisheries files	Pecos-Las Vegas
Heritage Resources	Continuation of collection and recording historical data at heritage resource sites (by volunteers, site stewards, for research purposes), (Hacienda, Terrero Mine Tramway, Glorieta Mesa Rock Art, La Cueva Rock shelter)	RD-Heritage Resource files	Pecos-Las Vegas
Heritage Resources	Monitored fire effects on 20 sites in the Viveash fire area	RD- Heritage Resource files	Pecos-Las Vegas
Hydrology / water quality, fish	Proper functioning condition surveys on streams within the Viveash fire area	RD Hydrology files	Pecos-Las Vegas
Hydrology / water quality	Monitored water quality, stream health, and sedimentation by New Mexico Environmental Department within Gallinas Municipal Watershed and Viveash fire area	RD Hydrology files	Pecos-Las Vegas
Noxious weeds	Conducted with range monitoring	RD-Range files	Pecos-Las Vegas
Non-Recreation Special Uses	Inspected powerline special use permits.	RD-Special Uses files	Pecos-Las Vegas
Range Condition, Readiness	Range readiness monitoring on key allotments	RD-Range files	Pecos-Las Vegas
Range Condition, Use	Continued monitoring range utilization on Valle Grande "grassbank" (by New Mexico State University Extension Service)	RD-Range files	Pecos-Las Vegas
Range Condition, Use	Continued monitoring range utilization on 19 allotments	RD-Range files	Pecos-Las Vegas
Range	Range improvement monitoring 10 allotments (including the areas within the Viveash fire area)	RD-Range files	Pecos-Las Vegas

RESOURCE	MONITORING ACCOMPLISHED	RECORD LOCATION	DISTRICT(S)
Recreation Trails	Inventoried 80 miles of trails and entered data into the Meaningful Measures database.	SO-Recreation Meaningful Measures database	Pecos-Las Vegas
Recreation Trails	Inventoried Viveash fire effects on trails (10 miles)	RD-Recreation files	Pecos-Las Vegas
Recreation Trails	Inventoried trails for inclusion in GIS trails layer (approx. 60 miles)	RD-Recreation files (Forest GIS database)	Pecos-Las Vegas
Recreation Developed Sites	Informal monitoring of developed sites throughout summer	No records	Pecos-Las Vegas
Recreation Developed Sites	Inspected 19 developed sites (annual inspection)	SO-Recreation files	Pecos-Las Vegas
Recreation Outfitters /Guides	Inspected outfitter/guide campsites for vegetative recovery, other resource conditions and permit compliance	RD-Permit files	Pecos-Las Vegas
Recreation Trails	Completed inventory forms about visitor contacts	RD-Recreation files	Pecos-Las Vegas
Recreation Trails	Monitored 200 miles of trails for maintenance needs	RD-Recreation files	Pecos-Las Vegas
Recreation Trails	Inventoried wilderness trail use, using trail counter at trailhead.	RD-Recreation files	Pecos-Las Vegas
Roads	Monitored effects of fire suppression equipment (dozers) on roads	RD-Road files	Pecos-Las Vegas
Roads	Monitored road conditions on all Maintenance Level 3 roads and 2% of Maintenance Level 2 roads on Viveash fire area	SO-Engineering files	Pecos-Las Vegas
Vegetation	Forest vegetation survey conducted by College of Santa Fe within Arroyo Hondo.	College of Santa Fe	Pecos-Las Vegas
Vegetation, Endangered Plants	Project implementation monitoring for Holy Ghost Ipomopsis (Holy Ghost Canyon)	RD files	Pecos-Las Vegas
Water Quality	Monitored Gallinas municipal water supply (City)	City of Las Vegas and New Mexico Environmental Department	Pecos-Las Vegas
Watershed, vegetation	Vegetative response monitoring by New Mexico Highlands University within the Viveash fire area	RD files	Pecos-Las Vegas
Wildlife	Surveyed for Mexican spotted owl in Gallinas Municipal Watershed, Viveash fire area and adjacent areas	RD Wildlife files	Pecos-Las Vegas
Wildlife	Surveyed for Northern goshawk in Viveash fire area and adjacent areas	RD Wildlife files	Pecos-Las Vegas
Wildlife	Bird transects installed in Viveash fire area (US Geologic Survey)	RD Wildlife files	Pecos-Las Vegas
Wildlife	Surveyed for breeding bird on Rowe Mesa by the College of Santa Fe	RD Wildlife files	Pecos-Las Vegas

Jemez – Cuba Resource Area

RESOURCE	MONITORING ACCOMPLISHED	RECORD LOCATION	DISTRICT
Air Quality	San Pedro Parks Wilderness	UC Berkeley	Cuba
Facilities	Inspected lookouts, cabins, compounds, and field buildings	SO-INFRA database and RD files	Jemez/Cuba
Fire	Inspected private homes within wildland interface for fire protection – Cochiti, Sierra los Pinos, Seven Springs	RD–Fire files	Jemez
Fire	Inspected private homes within wildland interface for fire protection (requested by homeowners)	No records	Cuba
Fire, Climate	Recorded weather data from Remote Automated Weather Station/FTS Stations, including fuel moisture data, daily year round.	SO-Fire Fire Weather Information Management System weather archives	Jemez
Fire, Climate	Deadman Remote Automated Weather Station unit monitoring fire danger indices, prescribed fire parameters.	SO-Fire Fire Weather Information Management System weather archives	Cuba
Fire, Fuels	Collected live fuel moisture samples, monitored fuel effects due to drought in different elevations/ vegetative zones.	RD-Moisture Logs	Jemez
Fire, Fuels	Onsite monitoring/inspection of contract operations (thinning, piling, lopping) O'Neill, Jemez Corridor, Thompson Ridge and Virgin	RD-Contract files	Jemez/Cuba
Fire, Fuels	Hazardous fuels assessments and down fuel inventory.	RD-Wildland urban interface project files	Jemez
Fire, Fuels	Community meetings with State, County and Tribal Officials on National Fire Plan.	RD-Fire files	Jemez
Fire, Fuels	On site information/educational meetings with 7 local wildland urban interface communities at risk to discuss potential actions to reduce the threat of wildland fire to life and property.	RD-Fire files	Jemez
Fire, Fuels	3 rd year monitoring, in conjunction with Rocky Mountain Research Station, effects of fire and smoke on mistletoe monitoring plots.	Rocky Mountain Research Station, Colorado	Jemez
Fire, Fuels	Implementation monitoring of the Chaparral thin and burn project (mechanical treatment of ladder fuels on 600 acres Rancho, Rancho South, and O'Neil projects)	RD-Fire files	Cuba/ Jemez
Fire, Fuels	Monitored free use firewood cutting to compare fuel loading in the Ojitos and Los Piños fuelwood areas (1500 acres)	RD-Fire files	Cuba
Fire, Fuels	Inventoried and mapped fuels vegetation, using air photos & field checks.	RD- Fire files	Cuba/Jemez
Fire, Fuels	Inventoried and monitored vegetation plots in Monument Canyon Research Natural Area	University of Arizona & RD-Fire files	Jemez

RESOURCE	MONITORING ACCOMPLISHED	RECORD LOCATION	DISTRICT
Fire, Fuels, and Soils	Inventoried fuels, vegetation, and soils at Lake Fork Mesa, Virgin Mesa, Bales Canyon	Rocky Mountain Research Station	Jemez
Fire, Fuels	Established (surveyed and marked) permanent plots to monitor effects of thinning and prescribed burning in the Chaparral and Virgin Project areas and, on Lakefork Mesa.	Rocky Mountain Research Station-Flagstaff Carl Edminster	Cuba/Jemez
Fire, Fuels	Continued data collection within 1999 plots in the Monument Canyon Research Natural Area. Data collection including boring trees to determine recruitment periods since fire exclusion.	University of Arizona, Tree Ring Lab research files	Jemez
Fire, Fuels - Post & Pre Treatment	Post and pre treatment monitoring with interest groups, environmental organizations, media and internal groups	RD-Fire files	Jemez
Fire, Prescribed	On site weather records hourly, fire behavior monitoring, smoke monitoring, first order fire effects monitoring: Mud Springs, Sierra Los Pinos, Bench, North Chaparral, Stable Mesa projects.	RD-Fire files	Jemez/Cuba
Fire, Prescribed	Mud Springs prescribed burn, Remote Automated Weather Station used in monitoring weather and associated prescription parameters, fire behavior, consumption of litter and large woody fuels.	RD-Fire files	Cuba
Fire, Prescribed - Rehab	Evaluated effectiveness of applied mitigation measures following Mud Springs prescribed burn.	RD-Fire files	Cuba
Fire, Prevention	Visual surveys of private homes within wildland interface for fire protection	RD-Fire files	Jemez
Fire, Use	Monitored onsite weather, fire behavior, fire growth, smoke production, first order fire effects.	RD-Fire files	Jemez/Cuba
Fisheries	Rio Grande cutthroat trout population assessment: Rio de las Vacas, Peralta, Rio Cebolla, American Creek, Gallina Creek, Elk Creek, Rito Resumidero, Rio Puerco de Chama, San Antonio Creek, all waters within San Pedro Parks wilderness, all waters within Sierra Mosca Allotment,	RD-Fisheries files	Jemez/Cuba
Fisheries/Water Quality	Stream habitat condition surveys: Rio de las Vacas, Rio Cebolla, East Fork Jemez, Cow Creek, Elk Creek, Sheep Creek, Bull Creek, Rio Gallinas, Rio Frijoles, Rio Medio	RD-Fisheries files	Jemez/Cuba
Heritage Resources	Inspected 20 National Register sites.	RD/SO-Heritage Resource files	Jemez
Heritage Resources	Monitored and inspected the Astialakwa and Patokwa sites with University of Pennsylvania	RD-Heritage Resource files	Jemez
Heritage Resources	Monitoring of Law Enforcement investigations on Borrego Mesa	RD-Heritage Resource files	Jemez
Heritage Resources	Monitored 120 sites within San Diego Allotment for cattle effects	RD-Heritage Resource files	Jemez
Heritage Resources	Monitored to insure sites were properly marked within timber sales (approx 40 sites – in 9 timber sale areas in the Chaparral planning area	RD-Heritage Resource files	Cuba

RESOURCE	MONITORING ACCOMPLISHED	RECORD LOCATION	DISTRICT
Heritage Resources	Monitored sites along 18 miles of roads in Valles Caldera National Preserve	RD-Heritage Resource files	Jemez
Heritage Resources	Monitored effects of road construction on heritage sites (US Hwy 550)	RD/SO-Heritage Resource files	Jemez/Cuba
Heritage Resources	Stabilized AR-03-10-03-3721/LA134 with Sierra Club Crew to reduce head cutting into pueblo	RD/SO-Heritage Resource files	Jemez
Heritage Resources	Passport in Time projects on Gallina sites in the Llaves area (2 projects) one on curations of materials from Dick collections and one office project completing site forms and records from resurvey of Dick area.	RD/SO-Heritage Resource files	Cuba
Heritage Resources	Continued Site Steward inspections of 20 sites on the Jemez Ranger District on San Juan Mesa and Borrego Mesa, and on the Cuba Ranger District at Eagle Point and the Llaves Valley	RD/SO-Heritage Resource files	Jemez/Cuba
Noxious Weeds	Inspected effectiveness of Russian olive/salt cedar eradication, riparian enhancement project, 300 acres	RD-Watershed files	Jemez
Noxious weeds	Mapping and inventory of noxious weeds	RD-Watershed files	Cuba
Partnership Volunteers	Collected data on hours worked by volunteers and partners, mostly recreation and heritage, Rocky Mountain Elk, Youth Conservation Corps, Backcountry Horseman, environmental education w/Jemez and Cuba schools, New Mexico Environmental Department, Senior Citizen Employment Program, Passport In Time Projects, Seeking Common Ground, Sierra Club, New Mexico Volunteers for the Outdoors, San Pedro Parks permittees, Penas Negras permittees, Job Corps	RD-Recreation & Heritage Resource files	Jemez/ Cuba
Range	Monitored trespass livestock (Penas Negras).	RD-Range files	Cuba
Range Condition, Readiness	Inspected range conditions to determine readiness for cattle entry. 25 allotments	RD-Range files	Cuba/Jemez
Range Condition, Use	Inspected grazing use in key areas, checked range conditions and permit compliance. 25 allotments	RD-Range files	Cuba/Jemez
Recreation Developed Sites	Monitored developed sites at least weekly, during fee collection or other site visits, or with host volunteers. Also inspected for hazard trees, and condition of sites and facilities (5 campgrounds, 2 group areas, 2 picnic areas, 5 fishing access)	No records	Jemez
Recreation Developed Sites	Monitored developed sites at least weekly, during fee collection or other site visits. Also inspected for hazard trees, and condition of sites and facilities (2 developed sites)	RD/SO-Recreation files	Cuba

RESOURCE	MONITORING ACCOMPLISHED	RECORD LOCATION	DISTRICT
Recreation Developed Sites	Inventoried/inspected all developed sites, including constructed facilities within sites (detailing physical attributes and signs). Field verified and put into Meaningful Measures database.	RD/SO-Recreation files, Meaningful Measures database	Cuba
Recreation Dispersed	Inventoried/mapped dispersed sites (field-checked and Geographic Positioning System) – Rio Guadalupe, San Antonio Hot Springs, McCauley Warm Springs)	RD-Recreation files	Jemez
Recreation Dispersed	Inventoried/mapped dispersed sites outside Wilderness (field-checked)	RD-Recreation files, RD GIS database	Cuba
Recreation Outfitters /Guides	Inspected special use permits for vegetative recovery, other resource conditions and permit compliance – (i.e. motorcycle trials, Horse Enduro, road easements, utility easements)	RD-Permit files	Jemez
Recreation Outfitters /Guides	Inspected outfitter/guide campsites for vegetative recovery, other resource conditions and permit compliance for 25 permits.	RD-Permit files	Cuba
Recreation Trails	Inspected trails, including culverts, water bars, etc.	SO-INFRA database	Jemez
Recreation Trails	Inspected trails, including culverts, water bars, etc. (50% Cuba)	SO-INFRA database	Cuba
Roads	Inspected effectiveness of past road decommissioning, and included 26 miles of new decommissioning	RD-Roads files	Jemez
Roads	Inspected cattleguard condition (Sayshukwa)	No Records	Jemez
Roads	Inspected effectiveness of past road decommissioning, and included 10 miles of new decommissioning	No Records	Cuba
Roads	Inspected effectiveness of cattle guards,	RD-Roads files	Cuba
Roads	Inventoried road signs to determine if signing was appropriate for condition of roads	RD-Roads files	Cuba
Roads	Monitored Maintenance Level 2 roads to determine resource damage levels (Roads 117, 264, Old 539, 95, 96, north end of district)	RD-Roads files	Cuba
Soils	Monitored district roads for on/off road use	RD-Project files/ GIS database and photos	Jemez/Cuba
Soils, Mine Reclamation	Inspected effectiveness of mine reclamation on soil/vegetation, Las Conchas	RD-Minerals files	Jemez
Soils, Mine Reclamation	Inspected effectiveness of mine reclamation on soil/vegetation, Las Nacimiento	RO/SO-Minerals files	Cuba
Special forest products	Christmas tree permits (3,000), firewood (4,000), boughs (80 tons)	SO-Forestry files, TIMS, TSA	Jemez
Special forest products	Christmas tree permits (600), firewood (2,000 cords), wilding permits (300)	SO-Forestry files, TIMS, TSA	Cuba
Vegetation	Reforestation survival exams on 350 acres	Jemez RD files	Cuba
Water	Monitoring conditions of Nacimiento ditch	RD/SO Hydrology files	Cuba

RESOURCE	MONITORING ACCOMPLISHED	RECORD LOCATION	DISTRICT
Water, Mine Reclamation.	Monitored water quality at Nacimiento mine, checking effectiveness of reclamation, by RO	SO-Hazmat files	Cuba
Water Quality	Monitored effectiveness of rehabilitation of Road 539	SO-Hydrology files	Cuba
Water Quality	Surveyed streams using proper functioning condition protocol (American Creek, Clear Creek, Rio Las Vacas, Palomas, Rito Café, Rio Peñas Negras, Rock Creek)	RD-Hydrology files	Cuba
Water Quality	Inspected effectiveness of watershed restoration work, Rio Puerco (BLM lead agency)	BLM Albuquerque	Cuba
Water Quality	Monitored effectiveness of rehabilitation of Oat Canyon road	RD-Hydrology files	Jemez
Water Quality	Monitored water quality in the San Pedro Parks Wilderness	RD-Hydrology files	Cuba
Water Quality	Monitored water quality of wells and other facilities that provide drinking water, at least monthly while the water is in use (Jemez Falls, Vista Linda, Battleship, and Redondo)	SO-Engineering files	Jemez
Water Quality	Monitored water quality on tributary creeks to Jemez River (by Jemez Pueblo).	Jemez Pueblo	Jemez
Water Quality	Monitored permit compliance for domestic water sources (on Forest) for Clear Creek, Rio de las Vacas, Horseshoe Springs, Cuba, La Jara, & Regina water supply.	RD-Hydrology files Cities of La Jara & Regina	Cuba
Water Quality	Monitored Thompson Ridge small sale winter logging effectiveness on stream course protection	RD-Hydrology files	Jemez
Water rights	Collected and evaluated flow data: Rio de las Vacas acequia (ditch)	SO-Hydrology files	Cuba
Weather	Monitored precipitation	Natural Resource Conservation Service files	Cuba
Wildlife	Monitored key areas within 4 allotments with Mexican spotted owl habitat	RD-Wildlife files	Cuba
Wildlife Species & Habitat	<ul style="list-style-type: none"> - Surveyed 10 Mexican spotted owl protected activity centers (10,000+ ac.) - Surveyed for Northern goshawk, 42,500 ac. - Surveyed breeding birds, 25,000 ac. - Surveyed effectiveness of elk hunt in reducing population in Dom Wilderness/Bandelier National Park area, using check stations (with New Mexico Department of Game and Fish) - Inspected for black bears near recreation sites - Surveyed for elk/deer populations (New Mexico Department of Game and Fish) - Predator control - Surveyed for Jemez Mountains Salamander 	RD-Wildlife files	Jemez

RESOURCE	MONITORING ACCOMPLISHED	RECORD LOCATION	DISTRICT
Wildlife Species & Habitat	- Inspected for black bears near recreation sites - Surveyed for elk/deer populations - Predator control	New Mexico Game and Fish Department files	Cuba
Wildfire Effects	Inspected post fire sediment trap in Schoolhouse Canyon burn area	RD-Hydrology files	Jemez

Española – Coyote Resource Area

RESOURCE	MONITORING ACCOMPLISHED	RECORD LOCATION	DISTRICT
Facilities	Inspected permit compliance for powerlines and electronic sites	RD-Special Use permit files	Española
Facilities	Hazardous materials inspections (baseline) on the hazardous material spill on Hyde Park road below ski area	RD/SO-Hazardous materials files	Española
Fire, Climate	Cerro Grande Remote Automated Weather Stations – 8 stations	SO-Fire Fire Weather Information Management System weather archives	Española
Fire, Climate	Collected live fuel moisture samples to monitor the effects of drought in different elevations/life zones Not done on district – will be collecting on a project by project basis	SO-Fire files	Española
Fire, Smoke	Smoke emissions – State – part of smoke permit monitor for management ignitions	RD- Fire files includes State data	Española
Fish	Monitored fire effects on water quality and aquatic macro invertebrates – pre and post Cerro Grande fire. Nichole McRury continuing aquatic assessment on Guaje Canyon. Rio Frijoles and Rio Medio stream inventory and fish population assessment – Sean Ferrell	Colorado State University–Nichole McRury RD-Fish files	Española
Heritage Resources	Monitored previously inventoried heritage sites prior to Caja thinning project	RD/SO-Heritage Resource files	Española
Heritage Resources	Monitored heritage site during Caja pipeline project	RD/SO-Heritage Resource files	Española
Heritage Resources	Inventoried historic period heritage sites in the Santa Fe Municipal Watershed	RD/SO-Heritage Resource files	Española
Heritage Resources	Monitored impacts to sites from dozer trespass - Vallecitos Creek	RD/SO-Heritage Resource files	Española
Heritage Resources	Inventoried heritage sites along Forest Road 24 through Caja.	RD/SO-Heritage Resource files	Española
Heritage Resources	Monitored historic Borrego Ditch and Borrego administration site prior to ditch cleaning	RD/SO-Heritage Resource files	Española
Heritage Resources	Monitored erosion control treatments on Guaje Ridge ruins, a National Register site burned during the Cerro Grande fire.	RD/SO-Heritage Resource files	Española

RESOURCE	MONITORING ACCOMPLISHED	RECORD LOCATION	DISTRICT
Heritage Resources	Monitored, assessed, and updated 57 sites impacted by Cerro Grande fire	RD/SO-Heritage Resource files	Española
Heritage Resources	Monitored documentation of and inspected Apache sites with University of Michigan graduate students in Rio del Oso drainage	RD/SO-Heritage Resource files	Española
Heritage Resources	Continuation of collection and recording of historical information by volunteer and Passport-In-Time for Santa Fe Municipal Watershed and Garcia Canyon	RD/SO-Heritage Resource files	Española
Heritage Resource	Re-recorded/monitored 27 sites in the Gallinas wildland urban interface area	RD/SO-Heritage Resource files	Coyote
Heritage Resources	Re-recorded/monitored 11 sites along roads in the Gallinas area	RD/SO-Heritage Resource files	Coyote
Heritage Resources	Re-recorded/monitored 7 sites along the roads in the French Mesa South area	RD/SO-Heritage Resource files	Coyote
Heritage Resources	Re-recorded/monitored 1 site in the La Presa Range Allotment	RD/SO-Heritage Resource files	Coyote
Heritage Resources	Road 474 maintenance/monitoring: 7 sites monitored	RD/SO-Heritage Resource files	Coyote
Heritage Resources	Coyote administrative site improvements: 1 site monitored	RD/SO-Heritage Resource files	Coyote
Heritage Resources	Road 151 maintenance: 17 sites monitored	RD/SO-Heritage Resource files	Coyote
Heritage Resources	Road 151 corral: 5 sites monitored	RD/SO-Heritage Resource files	Coyote
Heritage Resources	Dry Fire: 3 sites monitored	RD/SO-Heritage Resource files	Coyote
Heritage Resources	Gallina wildland urban interface: 35 sites baseline data gathered	RD/SO-Heritage Resource files	Coyote
Heritage Resources	French Mesa south roads: 4 sites baseline data gathered	RD/SO-Heritage Resource files	Coyote
Heritage Resources	Gallina area roads – 2 sites baseline data gathered	RD/SO-Heritage Resource files	Coyote
Heritage Resources	Canada de la Cuerva roads – 2 sites baseline data gathered	RD/SO-Heritage Resource files	Coyote
Heritage Resources	Site Steward inspection of 25 sites on monthly basis of sites in the Rio Chama, the Caja del Rio and the Polvadera Mesa area	RD/SO-Heritage Resource files	Española
Hydrology	Draining and dredging of Los Alamos reservoir post Cerro Grande fire	Department of Energy files and RD-Hydrology files	Española
Hydrology	Erosion and sedimentation monitoring and modeling - Los Alamos reservoir post Cerro Grande fire	Army Corps of Engineers files	Española
Lands, Special Use Permits	Unauthorized surface disturbance on Arroyo de los Frijoles (Barranca)/Vallecitos creeks. Neil Bachman riparian stream stabilization (baseline)	Law Enforcement files and RD files	Española

RESOURCE	MONITORING ACCOMPLISHED	RECORD LOCATION	DISTRICT
Law Enforcement Legal	Compliance with laws, regulations, permits. Collected baseline information on illegal dump sites	Law Enforcement files	Española
Law Enforcement	Forest Protection Officer inspections	Law Enforcement files, and RD files	Española
Minerals	Guaje pumice mine compliance inspections, Uranium mine reclamation site - La Bajada	RD-Minerals files, New Mexico Environmental Department	Española
Noxious Weeds	Surveyed for and mapped invasive plants (i.e. noxious weeds). Inventoried 20,000 acres in the Cerro Grande fire area. 4-5 new areas of infestation.	SO-GIS	Española
Partnership Volunteers	Maintain data on hours worked by volunteers and partners, locations, and work done, - annual report goes to Heritage Resources in SO	RD-Recreation and Heritage Resources files, Volunteer report and inspection, SO-Heritage Resources files	Española
Range	Monitored grazing permit compliance, utilization in key use areas, range conditions.	RD-Range files	Española
Range	Inventoried range improvements and verified conditions on 11 allotments	SO-INFRA Database, with GIS link	Coyote/ Española
Range	Inspected effectiveness of 16 riparian enclosures, pipeline, and 2 water tanks.	RD-Range files	Coyote/ Española
Range	Inspected and inventoried range structures, verified condition and effectiveness for 23 allotments	SO-INFRA database with GIS link	Coyote/ Española
Range Condition, Readiness	Inspected range conditions to determine readiness for cattle entry for 18 allotments	RD-Range files	Coyote/ Española
Recreation	Inspected trails/roads and developed recreation sites, and identified hazard trees for removal	RD-Recreation files	Española
Recreation, Developed Sites	Monitored all developed sites, using campground hosts, and weekly visits. Inspected for hazard trees, site and facilities conditions. Surveyed facility conditions at recreation sites along Santa Fe ski basin road, and Rio Chama	RD-Recreation files	Española
Recreation, Developed Sites	Inventoried and inputted data in the Meaningful Measures database for an additional 20% of trails and 40% of general forest areas.	RD/SO-Recreation files, Meaningful Measures spreadsheet, and GIS	Coyote- Española
Recreation Outfitters, Guides	Monitored permit compliance and resource conditions for 19 recreation special use permits	RD-Special Use Permit files	Española
Recreation Special Use Permits	Monitored permit compliance for the Santa Fe ski area including parking lot, lift line, and fence constructions projects	RD-Special Use Permit files	Española
Recreation Trails	Inventoried trail condition, including culverts, water bars, etc. Monitored burn impacts to trails from the Cerro Grande fire	SO-INFRA database Cerro Grande info in RD files	Española

RESOURCE	MONITORING ACCOMPLISHED	RECORD LOCATION	DISTRICT
Recreation Trails	Monitored trail reconstruction	RD-Special Use Permit files	Española
Roads	Monitored road conditions on all Maintenance Level 3 roads and 2% of Maintenance Level 2 roads in Cerro Grande fire area	SO-Engineering files	Española
Small products/personal use	Vigas, latillas, Christmas tree, cedar posts, rocks, wildings, surface rock, fuelwood	RD-Special Use Permit files	Espanola
Soils	Monitored plots in Cerro Grande fire for measuring soil loss, erosion, and hydrophobicity	RD-Soils files and published thesis	Española
Special Use Permits	Santa Clara Pueblo road use permit	RD/SO-Special Use permit files	Española
Timber	Borrogo Mesa stewardship plots	RD-Forestry files	Española
Vegetation	Invasive weed surveys and mapping	GIS layer	Española
Vegetation	Espanola firewood - Borrego Mesa, Lovato, Los Alamos, Caja, Twin Hills contract vegetation plots/photo report	RD-Timber/small sale files	Española
Vegetation	Set up vegetation enclosures on Cerro Grande fire to monitor elk use of vegetation. Haven't begun the monitoring yet.	RD-Project files	Española
Vegetation	Monitored fuelwood salvage	RD-files	Española
Vegetation	Reforestation survival exams on 100 acres	RD files	Española
Vegetation	Monitored for change in vegetation - Sagebrush Flats vegetation trend plots	RD files, kept at Grass bank (Will Barns)	Española
Vegetation, Soil	Monitored effectiveness of thin/burn treatments in 3 areas – Sagebrush Flats and Twin Hills mechanical treatment areas, and the Santa Fe Municipal Watershed pilot plots	RD files	Española
Water Quality	Proper functioning condition surveys: Rio Gallina, Puerco de Chama, Youngsville	RD files	Coyote
Water Quality	Monitor wells for drinking water, any Forest Service facility that supplies drinking water, nitrate/nitrate on any wells that provide drinking water. Old Coyote RD.	Reports in files to S. Baker and New Mexico Environmental Department	Española
Water Quality	Test wells on Caja, Santa Fe Municipal Watershed, Water quality testing Buckman well field	RD-Hydrology files, City of Santa Fe Santa Fe River, Santa Fe Municipal Watershed	Española
Water Quality, Hydrology	Continued implementation of monitoring plan for hydrological functions on Cerro Grande fire	RD-Hydrology files	Española
Water Rights	Inspected and evaluated water use. One investigation in Pine Springs. Working with Alison Dean to look at other site (Erosion -one allotment and three administrative sites – Pine Springs, Borrego, Aspen) Special Use Permit – Santa Fe ski area water rights monitored. Trujillo/Garcia acequia disturbance monitoring.	SO-Hydrology files RD-Special Use Permit files	Española

RESOURCE	MONITORING ACCOMPLISHED	RECORD LOCATION	DISTRICT
Water Rights	Monitored wells, water use, Coyote administrative site, all water related developments in the Gallina River watershed, Santa Fe ski basin water usage – snowmaking and domestic uses	SO-Hydrology files	Española
Water Rights	Inspected and evaluated water use on tanks and springs on Rio Puerco 5 th code watershed for water rights assessment. Filed on Rio Gallina tanks and springs	RD-Hydrology files	Coyote
Water Yield	Monitored snow course plus flow stations, Whole Rio Grande and Chama river. Runoff and storage-contractor, Forest Service evaluation effects on riparian vegetation Bureau of Reclamation, National Park Service, Army Corps of Engineers, (Coyote station)	Army Corps of Engineers files	Coyote-Española
Weather	Collected snow course precipitation data on a monthly basis from January through April.	Natural Resource Conservation Service files	Española
Wildlife	Surveyed for beavers and active dams, Santa Fe Municipal Watershed.	RD files Santa Fe Municipal Watershed monitoring record.	Española
Wildlife	Monitored post fire water development. One water tank rebuilt and reported into the WO WFRP	Burn Area Emergency Rehab documents	Española
Wildlife	Monitored and cleaned out nest boxes in project areas. Photo point monitoring of piñon-juniper personal use/non-commercial thinning in the areas burned by the Cerro Grande fire.	RD-Wildlife files	Española
Wildlife	Surveyed salamander in Cerro Grande burn area. Additional surveys done by Valle II sub-contractors.	Burn Area Emergency Rehab report SO/RD files	Española
Wildlife	Inventoried Mexican spotted owl protected area centers that were burned. Mexican spotted owl surveys done by Valle II sub-contractors. Northern goshawk territories, peregrine falcon areas habitat – burn intensity by biologists on the Burn Area Emergency Rehab team.	Burn Area Emergency Rehab report	Española
Wildlife	Cerro Grande benthic invertebrate inventory pre and post fire Guaje drainage by Nichole McRury	Colorado State University	Española
Wildlife and Plants	Jemez Mountains Salamander Surveys – New Mexico Department of Game and Fish and Los Alamos National Laboratory food plot for the Jemez Mountains Salamander	New Mexico Department of Game and Fish	Española
Wildfire, Vegetation and Fire	Documentation of fire effects for the proposed Mesita broadcast burn. Based on reevaluation this burn was not done.	RD-Wildlife files, fire has slides	Española

EVALUATION OF MONITORING RESULTS

1a. What did you learn from monitoring and what actions or changes occurred as a result of monitoring?

Recreation

- Determined trail locations and conditions of infrequently visited trails.
- Emphasizing outfitter guide compliance to reduce riparian impacts.

Mechanical Treatments

- Timber sales and vegetation treatments through contracts are viable and effective tools for managing the hazardous fuels conditions.
- There is a need for a more cost effective public and industrial use of smaller products (trees under 9 inch diameter).
- Embedded contracts eliminated the need for follow up burning and reduced costs to the district.

Prescribed Fire

- Drought effects still present resulting in lower than average seasonal live fuel moistures, and in the low fuel moistures in large dead fuels.
- In wildland urban interface areas, hand piling slash and burning those piles appear to be easier to consistently control than broadcast burns.
- Chipping of slash from thinning can reduce the smoke particulates released during prescribed burning projects.
- At higher elevations, snow can help compress thinning slash that was left on the ground, reducing the cost and need for lopping the slash during thinning operations.
- Prescribed burns are meeting objectives of reduction of dead/down fuels as well as killing some of the smaller standing overstocked trees, thus reducing the overall trees per acre.
- Prescribed burning increases the distance from the ground to lower branches through pruning the lower branches, thereby reducing the risk of crown fires.
- Prescribed burning has a marked effect in decreasing the amount of mistletoe infections in ponderosa pine stands.
- Determined the effectiveness of prescribed burns.

Wildfire

- The sediment trap for the burned area in Schoolhouse Canyon was effective in controlling erosion.
- Mulching is as effective as raking and mulching. Vegetation recovery is extremely slow in the hottest part of the Cerro Grande fire.
- Seeding and mulching is a cost effective treatment (Cerro Grande)
- Hydrophobic conditions caused by the Cerro Grande fire were more persistent than expected.
- Previously undiscovered heritage sites have been exposed.

Roads

- Found out that road signs weren't in compliance with the Highway Safety Act and made efforts to bring signs into compliance.
- O'Neil Project monitoring showed need for more photo points for before and after photos.
- Learned the extent and season of damage that Maintenance Level 2 roads are causing. Closed some roads due to high maintenance costs.
- Dispersed camping increases damage to riparian areas and causes user-created roads. As a result, campgrounds were left open longer to reduce impacts.
- Road closure methods are ineffective. More enforcement and education of public is needed.
- Public doesn't respect motorized-use road closures as they are currently done.
- In many cases, light gauge gates do not work. They are easily vandalized. Road closures are violated.
- Recommend more permanent type closures such as buried boulders, log/cattle barriers and guardrail barricades where more frequent access is needed.

Range

- Field monitoring identified range structures (earth tanks, springs, etc.) that have not been transferred from old maps or from people's memory to the range INFRA database. Therefore, many of those during inventory were added to INFRA. 60% of our range structures are not on the INFRA database.
- Most range fences have reached their life expectancy and need to be replaced.
- Range readiness monitoring showed that we should delay cattle entry on some allotments by 2 weeks due to drought conditions in previous year in order not to degrade allotments.
- Permittee cooperation has been good overall.
- Monitoring on Espanola Ranger District greatly improved in 2001. The documentation shows this.
- Poor range conditions (drought) on Coyote Ranger District resulted in season adjustments in order not to degrade allotments
- Crested wheat grass utilization needs to be heavier. The heavier utilization results in healthier grass. If the grass is not grazed it clumps up, but when grazed it becomes more of a sod grass, which is preferable for soil protection, and grazing.
- The GIS range capability analysis based on TES does not reflect actual utilization capability. Use range capability as a model, not as actual capability.
- Range conditions on Coyote Ranger District are actually better than the anecdotal evidence.
- Trespass livestock are causing over-utilization in areas where the excess livestock congregate. Working with neighboring district to resolve problem.
- Modified Annual Operating Instructions as a result of monitoring results from previous year.

Heritage Resources

- Able to discern shortcomings in current monitoring in regards to gathering specific disturbances that may be related to cattle.
- Rehabilitation of Guaje Ridge heritage sites during Cerro Grande fire was effective in preventing soil loss and loss of archaeological (cultural) materials.
- Stepped up monitoring as a result of impacts to heritage sites.

1b. What monitoring/inventory methods/techniques have you changed or improved as a result of monitoring?

- New inventory methods will be used for counting trail use as a result of theft of counters.
- Use cruise plots as photo points as these have data associated with the photo.
- Districts have revised their new burn plans.
- Use of digital cameras has improved our ability to utilize monitoring information and keep photo data.
- Acquired Geographic Positioning System units to make inventories easier, more accurate, and for linking to GIS.
- Interdisciplinary team approach improved making road assessments and closure decisions.
- Districts would like range permittees to be more responsible for their own allotment monitoring. This would be a more pro-active approach than what is being done currently.
- Greater emphasis was placed on monitoring this year, and we compiled more useful data as a result.
- Districts have changed their Annual Operating Plans and are continuously changing them based on monitoring during the field season by both permittees and district employees. This change has kept allotments in better condition. Based on range readiness inspections last year, some permittees rested their allotments and did not turn out their cattle.
- Districts are changing grazing utilization levels based on monitoring. They are adjusting the stubble height to a higher level because they felt that current levels are not enough.
- Have improved monitoring forms for fire and cattle affects to heritage sites.

Overall, Resource Area personnel felt that there are still some barriers preventing them from doing more effective monitoring. Some of the areas that are causing concern and frustration are:

- Need more personnel to do INFRA and monitoring.
- Cut down on amount of planning and implementation. There is a lack of upper and middle management emphasis on monitoring targets/funding.
- The Forest Leadership Team does not emphasize inventory and monitoring as a priority, and as such, sufficient funding and direction in to provided to the districts.
- Protocols for Meaningful Measures and INFRA are poorly designed, and need to be improved. Example INFRA and GIS link is not working.
- Realistic monitoring plans are not being developed in the analysis process. Monitoring needs to be more project specific and feasible.
- Cerro Grande fire, National Fire Plan and our regular program of work make it challenging to accomplish necessary monitoring as required by previous cultural resources project recommendations
- All monitoring was completed during spare time. Budget plans that specifically identified personnel and monies were not funded. Aerial monitoring of landscape burns was not funded. More money needs to be allotted for monitoring.
- Data collected in the field is taking a long time to get into the appropriate database (INFRA, NRIS, GIS).

2. What internal/external changes occurred last year that affected the forest?

- Viveash fire
- Increase in Freedom of Information Act requests
- Increase in databases and resulting training needs
- Monitoring of heritage sites not being accomplished to level required as a result of other priorities.
- Implementation of the National Fire Plan and other national and state initiatives.
- Increased external interest in what we monitor and to what level.
- Continued urban growth around the Forest.
- Increase in demands for communications sites.
- Wildland urban interface planning and the National Fire Plan
- Cerro Grande fire caused changes in the way prescribed fires are planned and implemented.
- President's Energy Plan
- Workforce management (example Zone Archaeologist and timber staff have a negative impact and having a geologist and biologist have had a positive impact)
- US Hwy 550 construction increased traffic in the surrounding area.
- Increased monitoring requirements.
- Hiring process for temporary employees.
- New Mexico timber initiative.
- Wildland urban interface planning and the National Fire Plan.
- Viveash and Cerro Grande rehab took a large percent of resources available on Pecos/Las Vegas and Española.
- Drought (both locally and regionally).
- Management of the Valles Caldera tapped available resources.
- Districts revised the prescribed burn plans.
- Some Permittees showed increased concern over allotments and voluntarily either put less cows out or took some off early in order not to degrade the resources.
- The grants and agreement coordinator helped get more done with partners in the public sector.
- Districts combined to become Resource Areas. Being in two separate office locations creates more time on the phone and in meetings, and less time in the field.
- Lack of decision from the top down is affecting employee morale.

3. What progress have you made toward achieving desired conditions?

- Implemented Best Management Practices (BMPs) on approximately 2300 acres. District will continue to plan similar activities in fiscal year 2002.
- Resource conditions in oil field are improving.
- We are continuing to make significant progress moving toward desired conditions in the key national resource emphasis areas: forest health, watershed/riparian, recreation and partnerships. For example, we are:
 - Continuing to reduce fuel loads and create fuel breaks to protect wildland urban-interface areas and watershed values
 - Continuing to decommission or improve roads to reduce water quality and soil erosion problems

- Continuing to update and revise allotment management plans that are designed to reduce soil, water and riparian impacts from cattle grazing
- Upgrading recreation sites to improve riparian conditions, aesthetics, safety and accessibility
- Continuing to build collaborative partnerships with numerous groups outside the Forest Service.

The following (specific) Forest Plan implementation accomplishments contributed to our progress in moving toward desired conditions (from Management Attainment Report):

<u>Trails</u>		<u>Vegetation/Fuels</u>	
Trail construction/reconstruction	35 miles	Fuel hazard reduction	5,350 acres
Trails maintained	212 miles	Invasive weed treatment	210 acres
<u>Fish and Wildlife</u>		<u>Range (Grazing)</u>	
Fish streams enhanced	12 miles	Allotments monitored to standard	59 allots
Soil/Water Resource Imp.	1,000 acres	Allotments NEPA done	1 allots
Threatened, Endangered and Sensitive		Rangelands restored/ protected	
Species Terrestrial Habitat	300 acres	by NEPA decisions	22,695 acres
Wildlife habitat enhanced	2,188 acres	Range structures built	105 structures
<u>Lands/Minerals</u>		<u>Heritage (Archaeological) Resources</u>	
Land boundaries marked	6 miles	Heritage sites evaluated	200 sites
Minerals/energy administration	5 operating plans	Heritage sites interpreted	15 sites
		Heritage sites protected	300 sites
<u>Special Uses</u>		<u>Human Resources</u>	
Special Use permits administered	30 permits	Senior Citizen Employment Program	
Special Use permits processed	40 permits		784 enrollee wks
		Volunteers	28 enrollee wks
		Youth Conservation Corps	64 enrollee wks

These accomplishment are not in the Management Attainment Report, but are tracked through other reports:

<u>Vegetation</u>	
Commercial harvest volume (Sold)	6,313 CCF*
Commercial harvest volume (Sold)	2,948 MBF**
Other timber products volume (Sold)	8,931 CCF
Other timber products volume (Sold)	4,170 MBF
Non-commercial thinning	448 acres
Reforestation	125 acres
<u>Trails</u>	
Road reconstruction	9 miles
Roads decommissioned	50 miles
Roads fully maintained	380 miles

*CCF – 100 cubic feet

**MBF - 1000 board feet

4. What public involvement in monitoring/evaluation worked or didn't work?

Public Involvement that worked well:

- Volunteer effort on Cerro Grande rehab, public involvement on Cerro Grande to inventory and monitor resource conditions, and the Cerro Grande fire multi-agency volunteer taskforce all worked well and provided extra assistance when needed.
- Partnership involvement in planning and monitoring Santa Fe Municipal Watershed project was the first time for true collaboration with environmental groups on tree-cutting project.
- Created a partnership with Rocky Mountain Research Station and created new partnerships with colleges and universities on several projects. The partnerships are working well.
- Monitoring by state agencies and universities helped increase our database.
- Campground hosts are effective in monitoring use and compliance of recreation sites.
- Permittee monitoring of range resources helps reduce workload and protects resources.
- Thinning/logging contractors that provided input to the efficiency of equipment use resulted in achieving desired conditions on the ground.
- Heritage resource volunteers in the Passport-In-Time program, through the Site Steward and on individual projects

Public involvement that didn't work well;

- Road closures have been hard to enforce. More public involvement is needed.
- We need a webmaster to maintain the website.
- Lack of notification by outside groups (and coordination between Forest employees) as to what monitoring is being done in the Viveash fire area (and other areas) prevents Forest from gaining access to all the data.
- Access to information on an internet site limits access to those who can afford computers and discriminates against those who can't afford access. Some districts feel that this discriminates against out local publics.

NEED FOR CHANGE: PRELIMINARY RECOMMENDATIONS FOR UPDATING THE FOREST PLAN

In 1999, we sent in a detailed report on the need to update virtually every management area program in the Forest Plan. All of the recommendations in the fiscal 1999 report are still valid, and it is even more evident now that we need new direction that reflects current issues, goals and objectives.

Preliminary recommendations for amending/revising (updating) the Forest Plan should be reviewed and refined through public involvement activities and during the forest-wide inventory/assessment process. The edited recommendations should then be reviewed and prioritized by the forest leadership team.

Preliminary recommendations include changes to:

- Management Areas:
- Transportation and travel management
- Timber Management
- Wildlife management
- Recreation/Scenery Management
- Heritage Resources
- Fire/Fuels
- Air quality
- Range management
- Watershed
- Monitoring Plan- Forest Plan Chapter V
- Forest Plan Glossary